



Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2011	BHZXL347C30	0.347	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection			Pump, Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4 - Final	STD	N/A	N/A	7.5	8.0	0.60	N/A	N/A	N/A
		CERT	--	--	6.6	6.0	0.21	--	--	--

BE IT FURTHER RESOLVED: That certification to the standards in 13 CCR 2423(b)(1)(A) -Table 1b listed above has been permitted pursuant to Endnote 2 of the same table.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Sections 2425 and 2426 (emission control system warranty).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending submission of new emission control labels to comply with 13 CCR Section 2424 (emission control labels). The manufacturer has until May 16, 2011 to replace all existing MY2011 emission control labels to remove this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 7 day of February 2011.

Annette Hebert, Chief
Mobile Source Operations Division

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Attachment

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Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAEGross)	4.Fuel Rate: mm ³ /stroke @ peak HP (br diesel only)	5.Fuel Rate: (lb./hr) @ peak HP (br diesel only)	6.Torque @ RPM (SAEGross)	7.Fuel Rate: mm ³ /stroke @ peak torque	8.Fuel Rate: (lb./hr) @ peak torque	9.Emissions Control Device Per SAE J
BHZXL347C30	N/A	1B30 / V	6,7@3600	16	3,2	9,8@3600	16	3,2	Mechanical DI
BHZXL347C30	N/A	1B30 / V	6,7@3550	16	3,2	9,9@3550	16	3,2	
BHZXL347C30	N/A	1B30 / V	6,8@3500	16	3,1	10,0@3500	16	3,1	
BHZXL347C30	N/A	1B30 / V	6,8@3450	16	3,1	10,1@3450	16	3,1	
BHZXL347C30	N/A	1B30 / V	6,8@3400	16	3,0	10,2@3400	16	3,0	
BHZXL347C30	N/A	1B30 / V	6,5@3350	16	3,0	10,3@3350	16	3,0	
BHZXL347C30	N/A	1B30 / V	6,5@3300	16	2,9	10,4@3300	16	2,9	
BHZXL347C30	N/A	1B30 / V	6,5@3250	16	2,9	10,5@3250	16	2,9	
BHZXL347C30	N/A	1B30 / V	6,4@3200	16	2,9	10,6@3200	16	2,9	
BHZXL347C30	N/A	1B30 / V	6,4@3150	16	2,8	10,7@3150	16	2,8	
BHZXL347C30	N/A	1B30 / V	6,3@3100	16	2,8	10,8@3100	16	2,8	
BHZXL347C30	N/A	1B30 / V	6,3@3050	16	2,7	10,8@3050	16	2,7	
BHZXL347C30	N/A	1B30 / V	6,2@3000	16,5	2,8	10,9@3000	16,5	2,8	
BHZXL347C30	N/A	1B30 / V	6,2@2950	16,5	2,7	11,0@2950	16,5	2,7	
BHZXL347C30	N/A	1B30 / V	6,1@2900	16,5	2,7	11,1@2900	16,5	2,7	
BHZXL347C30	N/A	1B30 / V	6,0@2850	16,5	2,6	11,2@2850	16,5	2,6	
BHZXL347C30	N/A	1B30 / V	6,0@2800	16,5	2,6	11,2@2800	16,5	2,6	
BHZXL347C30	N/A	1B30 / V	5,9@2750	16,5	2,5	11,3@2750	16,5	2,5	
BHZXL347C30	N/A	1B30 / V	5,8@2700	16,5	2,5	11,4@2700	16,5	2,5	
BHZXL347C30	N/A	1B30 / V	5,8@2650	16,5	2,4	11,5@2650	16,5	2,4	
BHZXL347C30	N/A	1B30 / V	5,7@2600	16,5	2,4	11,5@2600	16,5	2,4	
BHZXL347C30	N/A	1B30 / V	5,6@2550	16,5	2,3	11,6@2550	16,5	2,3	
BHZXL347C30	N/A	1B30 / V	5,5@2500	16,5	2,3	11,6@2500	16,5	2,3	
BHZXL347C30	N/A	1B30 / V	5,4@2450	16,5	2,3	11,7@2450	16,5	2,3	
BHZXL347C30	N/A	1B30 / V	5,4@2400	16,5	2,2	11,8@2400	16,5	2,2	
BHZXL347C30	N/A	1B30 / V	5,3@2350	16,5	2,2	11,8@2350	16,5	2,2	
BHZXL347C30	N/A	1B30 / V	5,2@2300	16,5	2,1	11,9@2300	16,5	2,1	

Motorenfabrik Hatz

Nonroad CI

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BHZXL347C30	N/A	1B30 / V	5.1@2250	18.5	2.1	11.9@2250	16.5	2.1	Mechanical DI ↓
BHZXL347C30	N/A	1B30 / V	5.0@2200	18.5	2.0	12.0@2200	16.5	2.0	
BHZXL347C30	N/A	1B30 / V	4.9@2150	18.5	2.0	12.0@2150	16.5	2.0	
BHZXL347C30	N/A	1B30 / V	4.8@2100	18.5	1.9	12.0@2100	16.5	1.9	
BHZXL347C30	N/A	1B30 / V	4.7@2050	18.5	1.9	12.1@2050	16.5	1.9	
BHZXL347C30	N/A	1B30 / V	4.6@2000	18.5	1.8	12.1@2000	16.5	1.8	

SUPERSEDED